

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 2004					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY				BA-2 COMMUNICATIONS & ELECTRONICS EQUIPMENT			P-1 ITEM NOMENCLATURE Automatic Carrier Landing System (42PN) BLI# 283200					
Program Element for Code B Items: Not Applicable							Other Related Program Elements 0604504N					
	Prior Years	ID Code		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY												
COST (In Millions)	\$228.0	A		11.5	17.4	12.5	17.9	18.5	18.9	19.3	CONT	CONT

The Automatic Carrier Landing System (ACLS) provides the primary precision electronic guidance for landing aircraft under all weather conditions on CVs, CVNs, LHAs, LHDs and at selected Naval Air Stations. Many of the components in the system have been in service for more than twenty years. This program funds maintainability, reliability and supportability improvements to existing equipment components that can no longer be maintained and supported, as well as items providing upgraded operational capability. A major effort involves a group of technology-refresh upgrades to extend the AN/SPN-46(V) service life until 2020. A new Cost Code for AN/SPN-46(V) Life Cycle Extension, PN410, will cover the costs of this set of related modifications, which includes the Unit 19 modification identified in previous budgets. In addition to Radar Control Group (Unit 19), modification kits will be acquired for an Enhanced GPS/Inertial unit to replace an older INS unit, for modification of Radar Set Groups (Units 24 and 25), for replacement of the AN/AYK-14 with a state-of-the-art processor group, replacement of operator and maintenance consoles and peripheral displays.

Due to supportability deficiencies, and length of time in service, the AN/SPN-46(V)1 landing system is being upgraded to AN/SPN-46(V)3 on CVs and CVNs.

FY 2005 - Procures two AN/SPN-35C Upgrades, various miscellaneous ACLS Modification Kits, and associated installation efforts.

Installing Agent: Shipyards and Alteration Installation Teams (AITS).

Ships or facilities to receive equipment: CV/CVNs, LHAs, LHDs, selected LPHs, the In-Service Engineering Agent (ISEA-NAWCAD, St. Inigoes), selected shore sites and the training site.

P-1 SHOPPING LIST

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WEAPONS SYSTEM COST ANALYSIS				Weapon System										DATE:			
P-5				February 2004													
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD											
Other Procurement, Navy				A		Automatic Carrier Landing System (ACLS) 42PN											
BA-2 COMMUNICATIONS & ELECTRONICS EQUIPMENT																	
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years				FY 2003			FY 2004			FY 2005				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
PN404	AN/SPN-41 Ind. Landing Monitor (ILM) /1	A	34,009				1	1,500	1,500								
PN408	ACLS Mod Kits 2/	N/A	30,276				VAR		369	VAR		2,127	VAR		2,945		
PN409	AN/SPN-35C Modification	N/A	5,641				VAR		273	VAR		2,104	VAR		2,959		
PN410	AN/SPN-46(V) LCE Mod Kits	N/A											VAR		574		
PN800	Integrated Logistics Support	N/A	2,267						610			1,858			650		
PN830	Production Engineering Support	N/A	4,931						1,582			4,846			701		
PN840	Quality Assurance	N/A	1,088						70			714			436		
PN860	Acceptance Test and Evaluation	N/A	4,988						222			4					
PN900	Non-FMP Installation	N/A	2,094						266						440		
PN910	FMP Installation	N/A	59,993						6,533			5,711			3,810		
PN990	Initial Training	N/A	7						25								
	Various 3/		82,780														
1/ FY 2003 unit price reduction due to reuse of some decommissioned components.																	
2/ ACLS Mod Kits include kits for the following equipment: AN/SPN-35, AN/SPN-41, AN-SPN-42, AN-SPN-46, and AN/TRN-28																	
3/ The amount identified in this line reflects total prior year funding associated with cost elements no longer financed in FY 2002 and beyond.																	
				228,074					11,450			17,364			12,515		

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 2004			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2 COMMUNICATIONS AND ELECTRONICS EQUIPMENT					C. P-1 ITEM NOMENCLATURE Automatic Carrier Landing Systems (ACLS)				SUBHEAD 42PN	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
PN404 AN/SPN-41 ILM FY03	1	\$1,500	NAVAIR	N/A	PO	NAWCAD St. Inigoes	11/02	1/04	YES	
PN409 AN/SPN-35C FY04	1	\$1,382	NAVAIR	N/A	PO	NAWCAD St. Inigoes	3/04	8/05	YES	
FY05	2	\$1,389	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/04	5/06	YES	
D. REMARKS System integration and assembly will be accomplished by the field activity, NAWCAD, after procuring individual components through various contractual vehicles. FY 2003 unit pricing for AN/SPN-41 reflects reuse of decommissioned components, refurbished and modified by NAWCAD.										

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P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

CVs/CVNs, L-class,
selected shore sites.

Flight Safety

MODIFICATION TITLE: AN/SPN-41 (PN404)

DESCRIPTION/JUSTIFICATION:

AN/SPN-41 provides independent landing monitor capability for carriers and certain amphibious classes (LHA, LHD). The total inventory objective for this item is twenty-seven, of which twenty-one are OPN funded and six SCN funded. The end-item is an in-house build by NAWCAD St. Inigoes, MD.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RD&E																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	20	34.009	1	1.500															21	35.509
Equipment "B"																				
ECP 1 Grp "B"																				
ECP 2 Grp "B"																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
INTEGRATED LOGISTICS SUPPORT		0.033																		0.033
PRODUCTION ENGINEERING		0.048																		0.048
QUALITY ASSURANCE				0.003																0.003
ACCEPTANCE, TEST & EVALUATION																				
INITIAL TRAINING																				
OTHER		39.725																		39.725
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	18	21.632	1	2.468	2	2.312													21	26.412
TOTAL PROCUREMENT		95.447		3.971		2.312														101.730

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P3A (Continued)

MODELS OF SYSTEMS AFFECTED: CVs/CVNs, LHAs, LHDs and selected shore sites. MODIFICATION TITLE: AN/SPN-41 (PN404)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Alteration Installation Team

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 14 Months

CONTRACT DATES: FY 2003: 11-02 FY 2004: N/A FY 2005: N/A
DELIVERY DATE: FY 2003: 1-04 FY 2004: N/A FY 2005: N/A

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	18	21.632	1	2.468	1	1.156													20	25.256
FY 2003 EQUIPMENT					1	1.156													1	1.156
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE:

		FY 2002 & Prior	<u>FY 2003</u>				<u>FY 2004</u>				<u>FY 2005</u>				<u>FY 2006</u>				<u>FY 2007</u>				<u>FY 2008</u>				<u>FY 2009</u>				<u>TC</u>	<u>TOTAL</u>
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	19	0	1	0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	
Out	18	0	1	0		0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	

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P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: CVs/CVNs, L-class, Flight SafetyMODIFICATION TITLE: ACLS Mod Kits Summary (PN408)

selected shore sites.

DESCRIPTION/JUSTIFICATION:

The equipment and installation costs on this P-3a are for individual modification programs that do not exceed \$5 million in either budget year or \$10 million in all years.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various Configuration Control Board approvals

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDTE																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	Var.	3.977															CONT.			CONT.
Equipment "B"																				
SPN-46 RDVP Mod	6	2.496			3	1.594													9	4.090
Upgrade of RDVP EDM			1	0.042															1	0.042
SPN-46/BFTT Interface	10	0.268	4	0.110															14	0.378
SPN-46 Power Monitor (see NOTE)			1	0.086															1	0.086
SPN-46 LSO Waveoff			2	0.015			6	0.045											8	0.060
SPN-46 Ka Receiver			32	0.060															32	0.060
DAIR/NTDS End-around (see NOTE)			15	0.026															15	0.026
SPN-46 Booster Amp			2	0.030			6	0.091											8	0.121
SPN-46 Spin Motor	15	0.012																	15	0.012
SPN-41 ARA-63 Repl.					5	0.533													5	0.533
SPN-41 Xmtr Mod											1	0.354							1	0.354
SPN-35 Shock Mod							4	1.203	4	1.224	3	0.934			1	0.323	1	0.328	13	4.012
SPN-35 Antenna Stabilization							4	1.120	3	0.854	4	1.159			1	0.300	1	0.306	13	3.739
SPN-35 UPS Mod							1	0.281											1	0.281
SPN-35 Power Supply Mod							1	0.205											1	0.205
INTEGRATED LOGISTICS SUPPORT		0.050		0.123		0.136		0.129		0.075		0.075		0.548		0.230		CONT.		CONT.
PRODUCTION ENGINEERING		0.169		0.208		0.145		0.083		0.025		0.193		0.847		0.227		CONT.		CONT.
QUALITY ASSURANCE				0.017		0.093		0.049		0.010				0.300		0.135		CONT.		CONT.
ACCEPTANCE, TEST & EVALUATION		0.150										0.002								0.152
DISCONTINUED COST ELEMENTS		82.780																		82.780
INSTALL COST	3	2.433	51	0.266	1	0.095	36	0.440	12	0.193	7	0.125			1	0.033	10	0.165	121	3.750
TOTAL PROCUREMENT		92.335		0.983		2.596		3.646		2.381		2.951		1.695		1.248		CONT.		CONT.

NOTE: Items not requiring installation.

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CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: CVs/CVNs, LHAs, LHDs and selected shore sites. MODIFICATION TITLE: ACLS Mod Kits Summary (PN408)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Alteration Installation Team

ADMINISTRATIVE LEADTIME: Var. PRODUCTION LEADTIME: Var.

CONTRACT DATES: FY 2003: Var. FY 2004: Var. FY 2005: Var.
DELIVERY DATE: FY 2003: Var. FY 2004: Var. FY 2005: Var.

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	3	2.433	14	0.251	1	0.095	12	0.060	1	0.059									31	2.898
FY 2003 EQUIPMENT			37	0.015			4	0.010											41	0.025
FY 2004 EQUIPMENT							8	0.142											8	0.142
FY 2005 EQUIPMENT							12	0.228	10	0.114									22	0.342
FY 2006 EQUIPMENT									1	0.020	6	0.124							7	0.144
FY 2007 EQUIPMENT											1	0.001			1	0.033	6	0.104	8	0.138
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																	2	0.043	2	0.043
TO COMPLETE																	2	0.018	2	0.018

INSTALLATION SCHEDULE:

In Out	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
	11	1	16	33	4	0	2	2	0	12	6	5	0	9	1	0	1	6	0	0	1	0	4	3	0	0	0	0	0	0	4	121
	3	9	14	17	11	0	1	0	0	7	10	10	9	0	7	3	2	0	3	3	1	0	0	0	0	1	0	0	0	10	121	

CLASSIFICATION: UNCLASSIFIED

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: CV/CVN and selected shore sites. Flight Safety MODIFICATION TITLE: AN/SPN-46(V)3 PIP Mod Kit (PN408)

DESCRIPTION/JUSTIFICATION: This modification corrects parts obsolescence problems and enhances maintainability. The inventory objective for this item is thirteen, of which eleven are OPN-funded and two SCN-funded.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Production ECP approved 9/96

	<u>Prior Years</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>TC</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	11	23.523																	11	23.523
Equipment "B"																				
ECP 1 Grp "B"																				
ECP 2 Grp "B"																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
INTEGRATED LOGISTICS SUPPORT		0.050																		0.050
PRODUCTION ENGINEERING		0.200		0.073																0.273
QUALITY ASSURANCE		0.020		0.050																0.070
ACCEPTANCE, TEST & EVALUATION																				
INITIAL TRAINING		0.003																		0.003
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	5	5.789	3	3.071	1	1.122	1	1.391	1	1.132									11	12.505
TOTAL PROCUREMENT		29.585		3.194		1.122		1.391		1.132										36.424

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CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: CV/CVN and selected shore sites. MODIFICATION TITLE: AN/SPN-46(V)3 PIP Mod Kit (PN408)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Alteration Installation Team

ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 16 Months

CONTRACT DATES: FY 2003: N/A FY 2004: N/A FY 2005: N/A
DELIVERY DATE: FY 2003: N/A FY 2004: N/A FY 2005: N/A

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	5	5.789	3	3.071	1	1.122	1	1.391	1	1.132									11	12.505
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	9	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Out	5	1	0	1	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11

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P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:

LHA, LHD, MCS-12 and
selected shore sites.

Flight Safety

MODIFICATION TITLE: AN/SPN-35C Upgrade (PN409)

DESCRIPTION/JUSTIFICATION:

This modification improves reliability and maintainability of an aging system baseline. The inventory objective for this item is thirteen, of which twelve are OPN-funded and one SCN-funded. The end-item is an in-house build by NAWCAD St. Inigoes, MD.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

LRIP Decision 12/99

	<u>Prior Years</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	3	4.584			1	1.382	2	2.777	2	2.824	2	2.873			1	1.489	1	1.516	12	17.445
Equipment "B"																				
Antenna Pedestal Mod Kit 1/					3	0.722	2	0.182	2	0.185	2	0.188			1	0.097	2	0.182	12	1.556
LRIP Upgrade 2/			1	0.273															1	0.273
DATA																				
TRAINING EQUIPMENT 3/	Var.	1.057																		1.057
SUPPORT EQUIPMENT																				
INTEGRATED LOGISTICS SUPPORT		0.899		0.300		0.574		0.521		0.579		0.278		0.070		0.148				3.369
PRODUCTION ENGINEERING		1.328		0.711		0.262		0.528		0.549		0.553				0.296				4.227
QUALITY ASSURANCE		0.005				0.206		0.387		0.378		0.049		0.050						1.075
ACCEPTANCE, TEST & EVALUATION		1.920		0.222		0.004														2.146
INITIAL TRAINING				0.025																0.025
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		0.814	1	0.994	3	2.182	2	2.325	5	7.094	4	4.645	4	3.622		0.280	5	5.078	24	27.034
TOTAL PROCUREMENT		10.607		2.525		5.332		6.720		11.609		8.586		3.742		2.310		6.776		58.207

Exhibit P-3A (Individual Modification) CLASSIFICATION:

1/ The Antenna Pedestal Mod Kit includes a yoke modification and radome replacement. These will install concurrently with the main EQUIPMENT units, except for one retrofit to cover the previous FY 2003 EQUIPMENT installation.

2/ LRIP Upgrade is required to bring an LRIP unit up to the production baseline. This upgrade to an in-production unit has no installation requirement.

3/ Equipment is a set of Pre-Faulted Modules.

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CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: LHA, LHD, MCS-12 and MODIFICATION TITLE: AN/SPN-35C Upgrade (PN409)
selected shore sites.

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Alteration Installation Team

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 18 ** Months

CONTRACT DATES: FY 2003: N/A FY 2004: 3/04 FY 2005: 12/04
DELIVERY DATE: FY 2003: N/A FY 2004: 8/05 FY 2005: 5/06

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	AP	0.814	1	0.994	1	1.949			1	2.364									3	6.121
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT					2	0.233	2	2.325											4	2.558
FY 2005 EQUIPMENT									4	4.730									4	4.730
FY 2006 EQUIPMENT											4	4.645							4	4.645
FY 2007 EQUIPMENT													4	3.622					4	3.622
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT															AP	0.28	2	2.414	2	2.694
TO COMPLETE																	3	2.664	3	2.664

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
In	0	0	0	1	0	0	1	0	2	1	0	0	1	1	0	4	0	0	0	4	0	0	0	4	0	0	0	0	0	5	24
Out	0	0	0	1	0	0	0	0	3	0	0	1	1	1	0	4	0	0	0	4	0	0	0	2	2	0	0	0	0	5	24

CLASSIFICATION: UNCLASSIFIED

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: CV/CVN and selected shore sites. Flight Safety MODIFICATION TITLE: AN/SPN-46(V)3 Life Cycle Extension Summary Mod Kits (PN410)

DESCRIPTION/JUSTIFICATION: The equipment and installation costs on this P-3a are for individual modification programs that do not exceed \$5 million in either budget year or \$10 million in all years.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various Configuration Control Board approvals

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT																				
Equipment "B"																				
SPN-46 Radar Control Unit (Unit 19)											2	2.307	2	2.348	3	3.586	5	6.084	12	14.325
SPN-46 EGI									2	0.212			6	0.660	6	0.672	16	1.825	30	3.369
SPN-46 Computer Group															1	1.120	14	15.967	15	17.087
SPN-46 Radar Set Group (Unit 24/25)									1	0.404	1	0.411	4	1.673	4	1.703	20	8.668	30	12.859
SPN-46 Peripheral Display							6	0.574	9	0.669	9	0.681	9	0.693	9	0.706	3	0.238	45	3.561
SPN-46 Common Console											9	1.546	9	1.576	6	1.070	21	3.811	45	8.003
INTEGRATED LOGISTICS SUPPORT				0.187		1.148				0.280		0.472		0.931		0.503		CONT.		CONT.
PRODUCTION ENGINEERING		0.100		0.590		4.439		0.090		0.949		0.714		1.495		0.934		CONT.		CONT.
QUALITY ASSURANCE						0.415				0.105		0.102		0.405		0.157		CONT.		CONT.
ACCEPTANCE, TEST & EVALUATION																				0.000
INITIAL TRAINING																				0.000
INSTALL COST							3	0.094	6	0.193	12	0.753	21	3.692	30	5.279	108	34.050	180	44.061
TOTAL PROCUREMENT		0.100		0.777		6.002		0.758		2.812		6.986		13.473		15.730		CONT.		CONT.

UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: CV/CVN and selected shore sites. MODIFICATION TITLE: AN/SPN-46(V)3 Life Cycle Extension Summary Mod Kits (PN410)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Alteration Installation Team

ADMINISTRATIVE LEADTIME: Var. PRODUCTION LEADTIME: Var.

CONTRACT DATES: FY 2003: N/A FY 2004: Var. FY 2005: Var.
DELIVERY DATE: FY 2003: N/A FY 2004: Var. FY 2005: Var.

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																				
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT							3	0.094											3	0.094
FY 2005 EQUIPMENT									6	0.193									6	0.193
FY 2006 EQUIPMENT											12	0.753							12	0.753
FY 2007 EQUIPMENT													21	3.692					21	3.692
FY 2008 EQUIPMENT															30	5.279			30	5.279
FY 2009 EQUIPMENT																	29	7.325	29	7.325
TO COMPLETE																	79	26.725	79	26.725

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
In	0	0	0	0	0	0	0	0	0	1	1	1	0	2	2	2	0	4	4	2	2	7	6	4	4	10	8	6	6	108	180
Out	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	2	2	2	5	3	2	4	7	5	5	8	8	8	6	108	180